

IHLP5050CEERR82M01 Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number IHLP5050CEERR82M01-DG

Manufacturer Vishay Dale

Manufacturer Product Number IHLP5050CEERR82M01

Description FIXED IND 820NH 25A 3 MOHM SMD

Detailed Description 820 nH Shielded Molded Inductor 25 A 3mOhm Ma

x Nonstandard



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:		
IHLP5050CEERR82M01	Vishay Dale		
Series:	Product Status:		
IHLP-5050CE-01	Active		
Type:	Material - Core:		
Molded			
Inductance:	Tolerance:		
820 nH	±20%		
Current Rating (Amps):	Current - Saturation (Isat):		
25 A	44A		
Shielding:	DC Resistance (DCR):		
Shielded	3mOhm Max		
Q @ Freq:	Frequency - Self Resonant:		
Ratings:	Operating Temperature:		
	-55°C ~ 125°C		
Inductance Frequency - Test:	Mounting Type:		
100 kHz	Surface Mount		
Package / Case:	Supplier Device Package:		
Nonstandard			
Size / Dimension:	Height - Seated (Max):		
0.520" L x 0.508" W (13.20mm x 12.90mm)	0.138" (3.50mm)		

Environmental & Export classification

8504.50.4000

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	





www.vishay.com

Vishay Dale

RoHS

COMPLIANT

HALOGEN

FREE

GREEN

(5-2008)

IHLP® Commercial Inductors, High Saturation Series





DESIGN SUPPORT TOOLS click logo to get started





STANDARD ELECTRICAL SPECIFICATIONS					
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) (1)	SATURATION CURRENT DC TYP. (A) (2)	
0.10	0.8	0.96	43	84	
0.15	1	1.2	41	75	
0.22	1.1	1.3	38.5	65	
0.33	1.3	1.5	36.5	62	
0.47	1.6	2	32	55	
0.60	1.8	2.2	29	51	
0.68	2.3	2.5	28	49	
0.82	2.6	3	25	44	
1.0	3.3	3.5	24	40	
1.5	5.1	5.5	19	35	
1.8	6.5	7	16.5	30	
2.2	7.2	8	16	29	
3.3	11	12	12	27	
4.7	14.3	15	10	24	
5.6	18.3	19	9.5	19	
6.8	19.8	22	9	18	
8.2	24.8	28	8.5	16	
10	30.4	34	7	14	

Notes

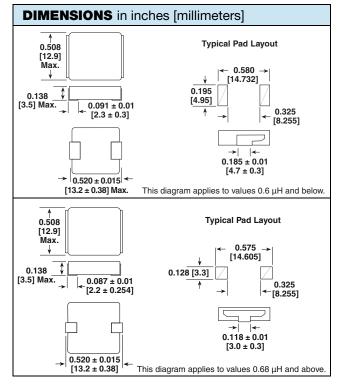
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Rated operating voltage (across inductor) = 75 V
- (1) DC current (A) that will cause an approximate ΔT of 40 °C
- $^{(2)}$ DC current (A) that will cause L₀ to drop approximately 20 %

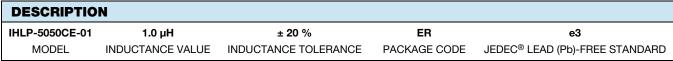
FEATURES

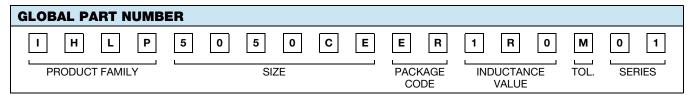
- · Lowest height (3.5 mm) in this package footprint
- Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- IHLP design.
- PATENT(S): www.vishay.com/patents
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

APPLICATIONS

- PDA / notebook / desktop / server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)







PATENT(S): www.vishay.com/patents

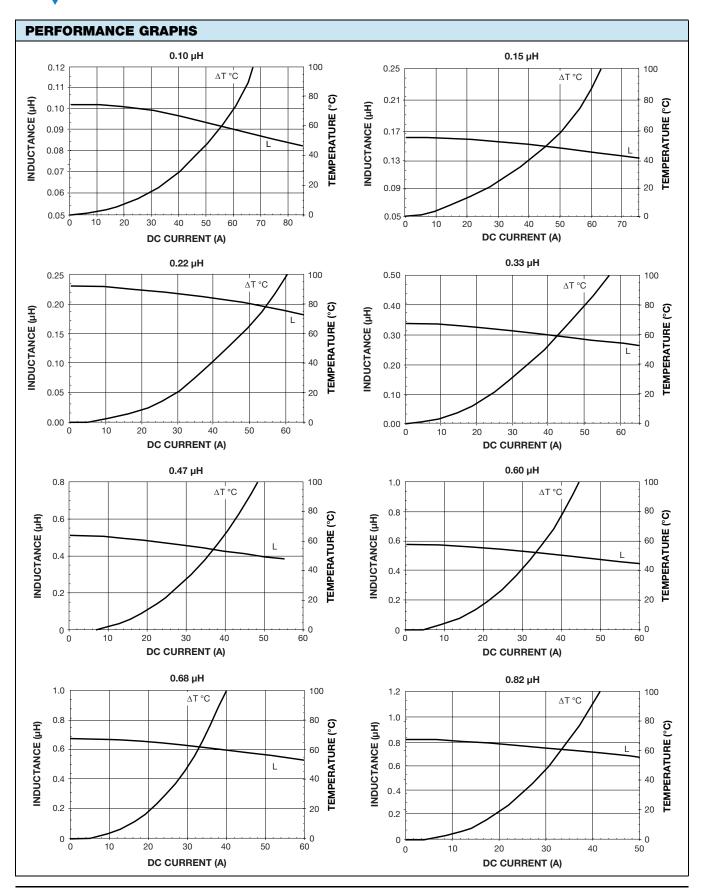
This Vishay product is protected by one or more United States and international patents.

IHLP-5050CE-01



www.vishay.com

Vishay Dale

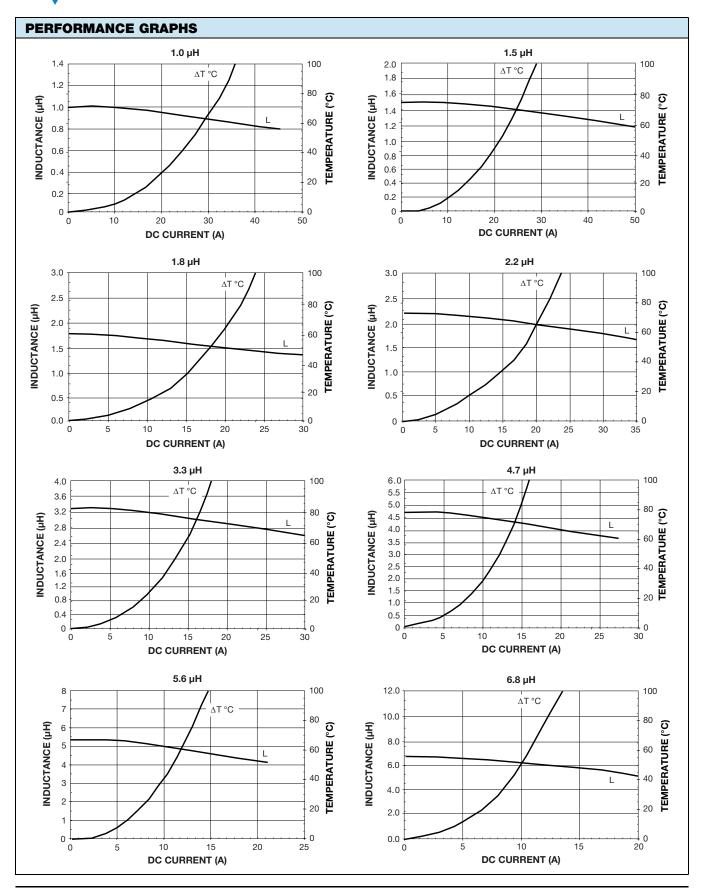


IHLP-5050CE-01



www.vishay.com

Vishay Dale

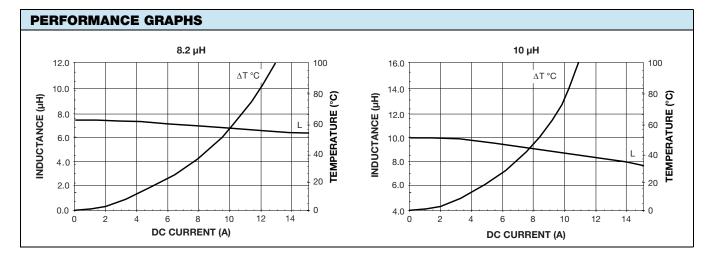




IHLP-5050CE-01

Vishay Dale







Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.



OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

















Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com